**Learning Standards:**

**LS1 - All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species).**

***LS1 (9-11) INQ+SAE+FAF -1***

*Use data and observation to make connections between, to explain, or to justify how specific cell organelles produce/regulate what the cell needs or what a unicellular or multi-cellular organism needs for survival (e.g., protein synthesis, DNA replication, nerve cells).*

**LS1 (9-11)-1 Students demonstrate understanding of structure and function-survival requirements by**…

**1a** explaining the relationships between and amongst the specialized structures of the cell and their functions (e.g. transport of materials, energy transfer, protein building, waste disposal, information feedback, and even movement).

**LS1 (Ext)-1 Students demonstrate understanding of structure and function-survival requirements by**

**1bb** identify various specialized cells and common unicellular organisms in diagrams, photographs and/or microscopic slides.

**Students demonstrate understanding of differentiation by…**

**1cc** describing the origin and nature of stem cells and their potential for curing disease.